

Base-Ten Riddles

Equivalent Representations

Taken from *Teaching Student-Centered Mathematics Vol. 1 Grades K-3*

Activity 5.6, p.134 - (2.NBT.3)

Base-ten riddles can be presented orally or in written form. In either case, children should use base-ten materials to help solve them. The examples here illustrate a variety of possibilities with different levels of difficulty.

Have students use base-ten blocks to solve each riddle.

(Answers are in red)

1. I have 23 ones and 4 tens. Who am I? **63**
2. I have 4 hundreds, 12 tens, and 6 ones. Who am I? **526**
3. I have 30 ones and 3 hundreds. Who am I? **330**
4. I am 45. I have 25 ones. How many tens do I have? **2**
5. I am 341. I have 22 tens. How many hundreds do I have? **1**
6. I have 13 tens, 2 hundreds, and 21 ones. Who am I? **351**
7. If you put 3 more tens with me, I would be 115. Who am I?
85
8. I have 17 ones. I am between 40 and 50. Who am I? **47**
9. I have 17 ones. I am between 40 and 50. How many tens do I have? **3**